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A DESCRIPTION OF A NEW NEARCTIC SPECIES OF *XYLOMYA* (DIPTERA: XYLOMYIDAE)

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Abstract.—Vasey, Carey E., Biology Department, State University College of Arts and Science, Geneseo, N.Y. 14454.—*Xylomya terminalis*, n. sp. collected from Allegany County, New York is described. Three specimens, two from New York State and one from Kalamazoo County, Michigan are included in the type series.

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Introduction

A single female specimen of *Xylomya* was collected from a wooded area near the town of Fillmore, Allegany County, New York on July 11, 1976 by W. B. Sinnamon. This genus is poorly known and has received little attention except for its inclusion in the studies of Leonard (1930) and Steyskal (1947). The latter revised the genus (as *Xylomyia*) and recognized six Nearctic species previously named and described one additional species as new.

An attempt to identify the specimen at hand using Steyskal's key runs smoothly until couplet five is reached. *Xylomya terminalis*, n. sp. is distinguished from *X. aterrima* Johnson by the yellow palpi which are black in the latter species and from *X. tenthredinoides* (van der Wulp) which has reddish terminalia rather than blackish as in *X. terminalis.* While the palpi of *X. tenthredinoides* are also yellow, and the terminalia of *X. aterrima* are black like that of *X. terminalis,* the overall nature of the thorax and abdomen of the latter is unlike that of either species.

The holotype will be deposited in the collections of Cornell University. (C.U. Type No. 5119).

Xylomya terminalis, n. sp.

Holotype.—Length, 13.5 mm. Wing, 11 mm.

Head.—First antennal segment dark-brown, one and one-half times longer than wide. Second antennal segment, dorsal aspect dark-brown, ventral and lateral areas light-brown, nearly as long as wide. First 2 segments with numerous black hairs. Flagellum with 8 visible joints, all of which are bare except terminal one which bears many coarse black hairs. Frons, a thin, black shiny callus nearly twice as long as wide. Ocelli 3, on slightly elevated tubercle on vertex. Face with silvery pubescence above,

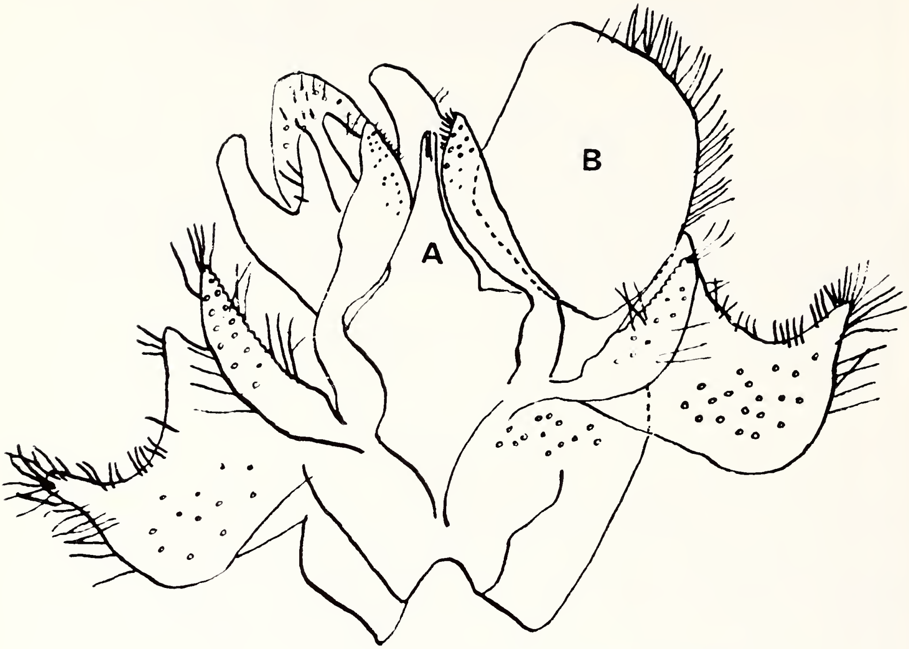

Fig. 1. Ventral view of male genitalia of *Xylomya terminalis*. Lobe designated B has been removed from the right side in order to see parts clearly. Because homologies of male genitalia of *Xylomya* sp. have not been established, except for the aedeagus (designated A) the other components have not been labeled.

on either side of and below antennal bases. Palpi (Fig. 2) yellow, obtuse at tip bearing numerous yellow hairs. Head separated from thorax by distinct collar-like, yellow cervix. Outer border of occipital and post-occipital area fringed with long yellow hairs, area in back of eyes with silver pubescence.

Thorax.—Mesonotum subshining, dark-brown and yellow so as to form a pattern as follows: Broad, brown, median stripe extending from anterior edge to area just caudad to transverse suture. Latero-dorsal areas anterior to transverse suture with large, oval, dark-brown spots. Areas between brown markings yellow. Humeral and postalar calli yellow. Mesoscutellum yellow, bordered laterally and anteriorly by dark-brown. Lateral areas posterior to transverse suture and anterior to postalar calli dark-brown fusing with median brown stripe from anterior end. Entire dorsum with numerous golden hairs, arranged in patches, curving in different directions. Propleuron yellow, infuscated with brown. Mesopleuron dark-brown anteriorly, separated from posterior yellow portion by irregular, somewhat anteriorly curved line extending from the spiracle just below

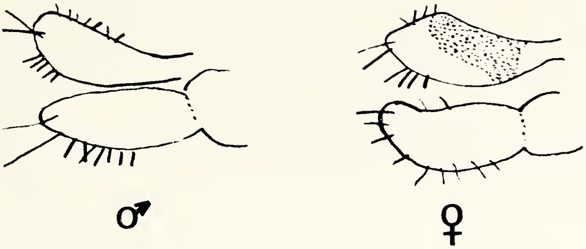

Fig. 2. Profiles of the left palpi of *Xylomya terminalis.*

humeral callus to about base of the middle coxae. Wings clear, anterior half brownish tint, venation brown. Halteres pale yellow. Legs: Prothoracic and mesothoracic legs yellow, terminal tarsal segments infuscate. Metathoracic legs, yellow, inner surfaces of trochanters dark-brown, distal thirds of femurs and tibiae dark-brown; terminal segments of tarsi, infuscate.

Abdomen.—Anterior border of first segment with a continuous black band, remainder of segment one and segments 2–4 yellow with brownish infuscations. Terminal 4 segments and terminalia black.

Paratypes.—1♂ Gull Lake Biological Station, Kalamazoo Co., Michigan: 22 July 1966 (R. L. Fischer); 1♂ Rochester, New York: July 1968 (R. Duffield); 1♀ Ithaca, New York: 26 June 1965 (D. L. Stephan).

Paratypes will be deposited in the collections of Cornell University and United States National Museum, Smithsonian Institution.

Variations.—The male paratypes are slightly smaller than the female holotype, ranging between 12.5 mm and 13.0 mm in length. The paratype measures 14.0 mm in length. The type series of specimens is uniform in appearance. The important difference is in the degree of infuscation on the abdominal segments. In all cases the degree of dark-brown bands on first abdominal segment is greater than that described for the holotype. The paratype has much greater degree of fusion of brown and yellow in segments 2–4 than holotype. In all specimens, the posterior 4 segments and terminalia are dark-brown to black. The male genitalia are illustrated in Fig. 1.

Acknowledgments

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